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Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A system for exchanging data and audio between a cellular telephone and a landline telephone, the system comprising:

a cordless telephone base station having a first radio transceiver for wirelessly communicating with a cellular telephone using a short-range RF communications technology, a second radio transceiver for communicating with a cordless handset associated with the cordless telephone base station, and an audio router configured to send and receive audio signal communications with a short-range wireless communication protocol stack and transcoder, and to send and receive audio signal communications with a cordless protocol stack and transcoder;

a man machine interface configured to indicate the presence or absence of registered cellular telephones within a wireless communications range;

and

the cordless handset having a third cordless radio transceiver configured to communicate with the cordless telephone base station using cordless radio frequency communications, and

wherein when the cellular telephone is within a the wireless communication range of the first radio transceiver of the cordless telephone base station, the first radio transceiver and the second radio transceiver of the cordless telephone base station are activated to exchange data and audio with each other and the cordless handset communicates with the cellular telephone, wherein

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the exchange of audio is established between the cellular telephone and the telephone base station by using a short-range wireless communications headset profile embedded in the telephone base station of the landline telephone and the cellular telephone for exchanging audio packets when an audio exchange is required, and

wherein the audio router is configured to couple, at least in part, the cellular telephone to the landline telephone base station.

2. (Previously Presented) The system of claim 1, wherein the cordless telephone base station includes a short-range wireless communications module including hardware and software used for the first radio transceiver, and cordless protocol stack and transcoder coupled to the cordless radio transceiver.

3. (Previously Presented) The system of claim 2, wherein the short-range wireless communications module supports a headset profile through which the cordless telephone base station and the cellular telephone communicates with each other.

4. (Previously Presented) The system of claim 2, wherein the short-range wireless communications module establishes an audio link for exchanging audio messages between the cordless telephone base station and the cellular telephone.

5. (Previously Presented) The system of claim 2, wherein the short-range wireless communications module establishes a data link for exchanging data between the cordless telephone base station and the cellular telephone.

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6. (Previously Presented) The system of claim 1, wherein when the first and second radio transceivers of the base station are activated to exchange data and audio with each other, the cordless handset is able to receive incoming calls and make outgoing calls for the cellular telephone.

7. (Currently Amended) A system for wireless communications between a cellular telephone and a landline telephone, the system comprising:

a telephone base station associated with the landline telephone including a short-range wireless transceiver, a first cordless radio transceiver, and an audio router;

one or more handsets, each handset comprising a second cordless radio transceiver configured to communicate with the first cordless radio transceiver of the telephone base station using radio frequency ~~communications~~, communications;

~~a one or more-cellular telephones~~ telephone employing a short-range wireless communications technology compatible with the short-range wireless transceiver of the telephone base station so that when a cellular telephone of the one or more-cellular telephones ~~telephone~~ is in a range of the short-range wireless transceiver, a wireless communication is established between the cellular telephone and the telephone base station; and

station, a man machine interface configured to indicate the presence or absence of the one or more cellular telephones when the one or more cellular telephones are within a wireless communications range, and

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wherein the audio router is configured to send and receive audio signal communications with a short-range wireless communication protocol stack and transcoder, and to send and receive audio signals communications with a cordless protocol stack and transcoder, and

when the wireless communication is established, an audio link is established between the cellular telephone and the telephone base station by using a short-range wireless communications headset profile embedded in the telephone base station of the landline telephone and the cellular telephone for exchanging audio packets when an audio exchange is required.

8. (Currently Amended) The system of claim 7, wherein a data link is established using an Asynchronous Connectionless Link (ACL) connection along with the audio link to support data exchange between the cellular telephone and the telephone base station.

9. (Canceled)

10. (Canceled)

11. (Previously Presented) The system of claim 7, wherein the one or more handsets further include cordless radio transceivers and antenna.

12. (Currently Amended) The system of claim 7, wherein when the wireless communication is established, one of the one or more handsets is used to receive incoming calls for the cellular telephone and to send outgoing calls on the behalf of the cellular telephone.

13. (Withdrawn) A landline telephone base station comprising:
an audio router configured to

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send and receive audio signal communications with a BLUETOOTH wireless protocol stack and transcoder, and

send and receive audio signal communications with a cordless protocol stack and transcoder;

wherein the audio router is configured to couple, at least in part, one cellular telephone to the landline telephone base station.

14. (Withdrawn) The system of claim 12, further comprising a processor coupled to the audio router, the processor is configured to

send and receive data communications with the short-range wireless protocol stack and transcoder, and

send and receive data communications with the cordless protocol stack and transcoder.

15. (Currently Amended) A method for establishing a wireless communications between a cellular telephone and a landline telephone, the method comprising:

providing a menu that indicates the presence or absence of cellular telephones registered with the landline telephone within a wireless communications range;

establishing a wireless communications link between the landline telephone and the cellular telephone when the cellular telephone is within a range of a transceiver of a base station of the landline telephone and is registered with the base station, wherein the landline telephone base station communicates with one or more telephone handsets of the landline telephone;

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establishing an audio link between the cellular telephone and the landline telephone when the wireless communications link between the landline telephone and the cellular telephone is established, wherein the audio link is established by using a short-range wireless communications headset profile embedded in the base station of the landline telephone and the cellular telephone for exchanging audio packets when an audio exchange is required, and wherein the landline telephone base station comprises an audio router configured to send and receive audio signal communications with a short-range wireless communication protocol stack and transcoder, and to send and receive audio signals communications with a cordless protocol stack and transcoder;

receiving audio communications from the one or more telephone handsets of the landline telephone;

processing the audio communications at the base station of the landline telephone according to a wireless communications protocol corresponding to a wireless transceiver of the cellular telephone; and

sending the processed audio communications to the cellular telephone via the audio link.

16. (Original) The method of claim 15, further comprising:

establishing a data link using Asynchronous Connectionless Link (ACL) connection between the cellular telephone and the landline telephone base unit for supporting data exchanges between the cellular telephone and the landline telephone base unit.

17. (Canceled)

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18. (Previously Presented) The method of claim 15, wherein the cellular telephone and the landline telephone both employ a short-range communications technology.

19. (Previously Presented) The method of claim 15, wherein the landline telephone base station comprises two transceivers, one of which is a cordless link transceiver for use in receiving/sending messages to the one or more headset, and the other one of which is a short-range wireless communications transceiver for use in receiving/sending messages to the cellular telephone.

20. (Previously Presented) The method of claim 15, wherein sending the processed audio communications to at least one of the cellular telephones via the audio link includes sending AT (Attention) commands.

21. (Original) The method of claim 20, wherein the AT commands are sent using data packets over an ACL (Asynchronous Connectionless link) connection.

22. (Original) The method of claim 20, wherein the AT commands are sent using one of the audio packets, the data packets, and a combination of audio packets and data packets.

23. (Original) The method of claim 20, wherein the AT commands are sent using data packets over an audio (SCO) connection.

24. (Previously Presented) The method of claim 15, further comprising establishing a direct wireless communication link between the cellular telephone and a cordless handset that is

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communicating with a landline telephone base station employing a short-range wireless communications technology when the cellular telephone is within a range of the landline telephone base station.

25. (Previously Presented) The method of claim 19, wherein the wireless communication link between the landline telephone and the cellular telephone is established, the two transceivers of the landline telephone base station are activated to exchange data and audio with each other and one of the one or more handset is used to receive incoming calls and make outgoing calls for the cellular telephone.